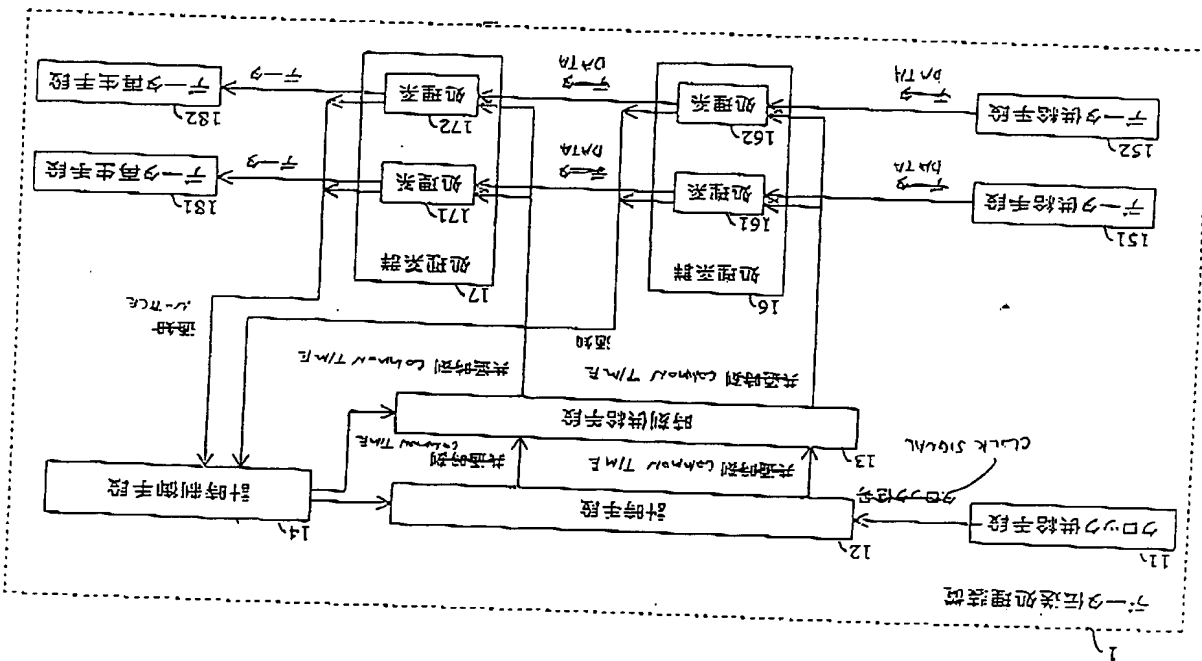
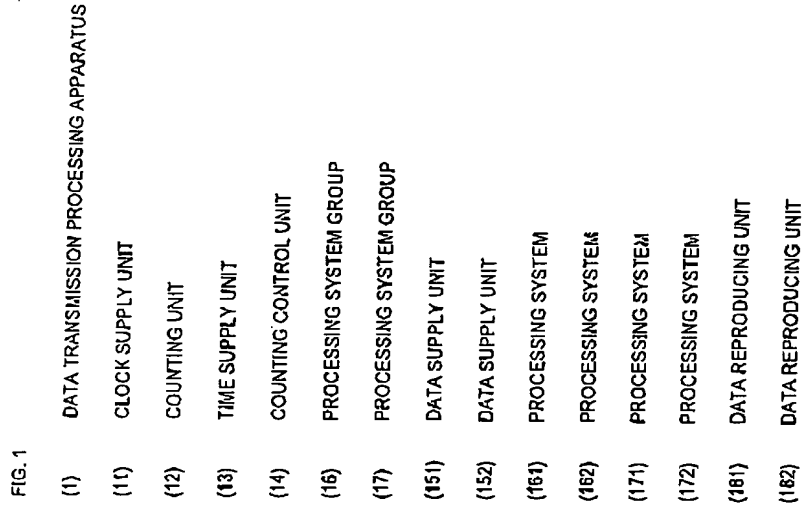


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FIG. 2

COUNTING UNIT 12, TIME SUPPLY UNIT 13

COUNTING CONTROL UNIT 14

PROCESSING SYSTEM GROUPS 16 AND 17

(S1) START

(S2) WAIT FOR A NOTICE GIVEN FROM A PROCESSING SYSTEM

(S3) A PROCESSING SYSTEM COMPLETING A PREPARATION FOR A TRANSMISSION PROCESSING TRANSMITS A TRANSMISSION PROCESSING PREPARATION COMPLETION NOTICE

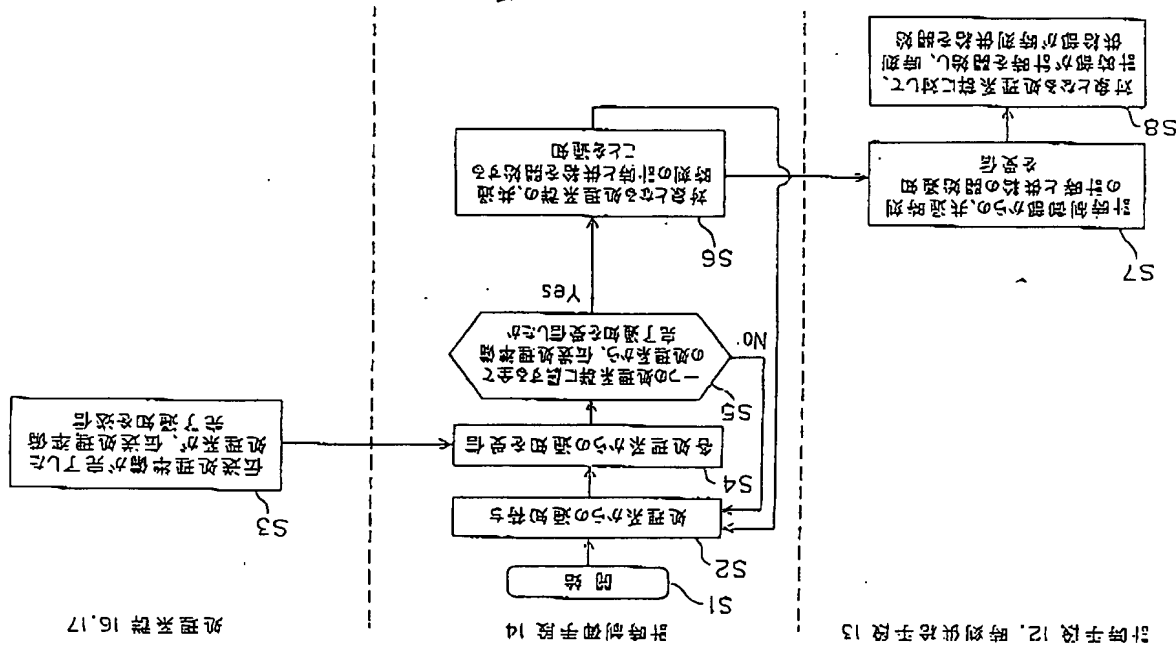
(S4) RECEIVE THE NOTICE FROM EACH PROCESSING SYSTEM

(S5) RECEIVE THE TRANSMISSION PROCESSING PREPARATION COMPLETION NOTICES FROM ALL OF PROCESSING SYSTEMS BELONGING TO ONE PROCESSING SYSTEM GROUP

(S6) GIVE THE NOTICE OF A START TO COUNT AND SUPPLY A COMMON TIME FOR A PROCESSING SYSTEM GROUP TO BE AN OBJECT

(S7) RECEIVE THE NOTICE OF A START TO COUNT AND SUPPLY A COMMON TIME FROM A COUNTING CONTROL PORTION

(S8) A COUNTING PORTION STARTS COUNTING AND A TIME SUPPLY PORTION STARTS TO SUPPLY A TIME FOR A PROCESSING SYSTEM GROUP TO BE AN OBJECT



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FIG. 3

COUNTING UNIT 12

TIME SUPPLY UNIT 13

PROCESSING SYSTEM GROUPS 16 AND 17

(S11) START THE COUNTING OF A COMMON TIME OF A PROCESSING SYSTEM GROUP TO BE AN OBJECT

(S12) COUNT AND TRANSMIT THE COMMON TIME OF THE PROCESSING SYSTEM GROUP TO BE THE OBJECT BASED ON A CLOCK SIGNAL

(S13) RECEIVE THE COMMON TIME OF THE PROCESSING SYSTEM GROUP TO BE THE OBJECT

(S14) TRANSMIT THE COMMON TIME TO ALL OF PROCESSING SYSTEMS BELONGING TO THE PROCESSING SYSTEM GROUP TO BE THE OBJECT

(S15) EACH PROCESSING SYSTEM SYNCHRONOUSLY CARRIES OUT A DATA TRANSMISSION PROCESSING BASED ON THE COMMON TIME THUS RECEIVED.

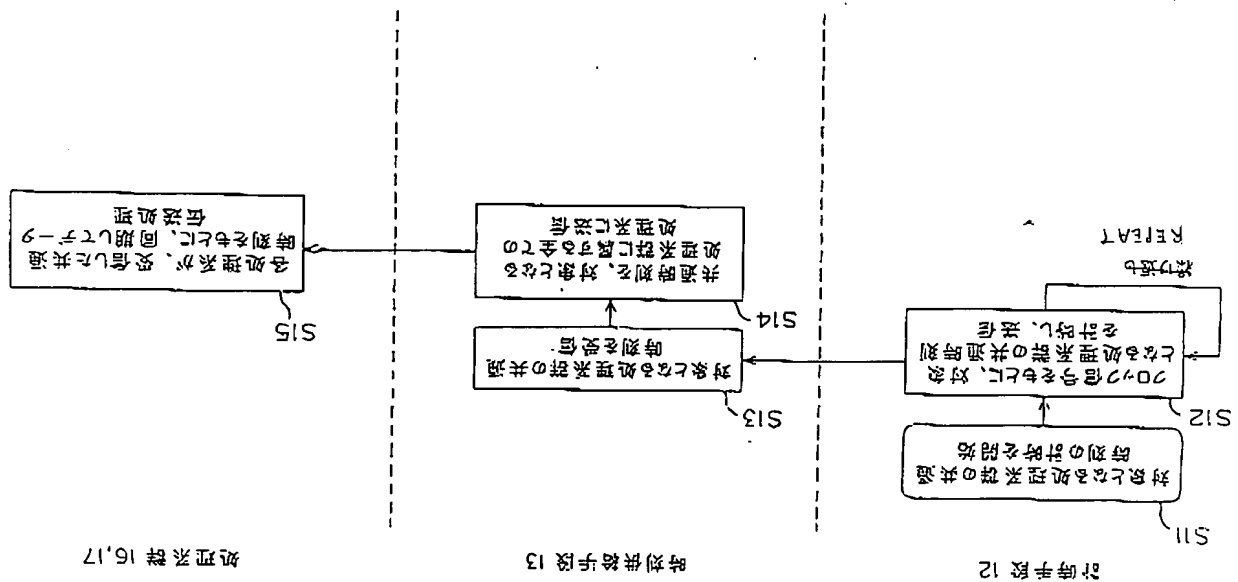


Fig. 3

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- FIG. 4
- (2) DATA TRANSMISSION PROCESSING APPARATUS
- (11) CLOCK SUPPLY UNIT
- (12) COUNTING UNIT
- (13) TIME SUPPLY UNIT
- (14) COUNTING CONTROL UNIT
- (16) PROCESSING SYSTEM GROUP
- (17) PROCESSING SYSTEM GROUP
- (21) BUFFER FILLING COUNTING START UNIT
- (151) DATA SUPPLY UNIT
- (152) DATA SUPPLY UNIT
- (161) PROCESSING SYSTEM
- (162) PROCESSING SYSTEM
- (171) PROCESSING SYSTEM
- (172) PROCESSING SYSTEM
- (181) DATA REPRODUCING UNIT
- (182) DATA REPRODUCING UNIT

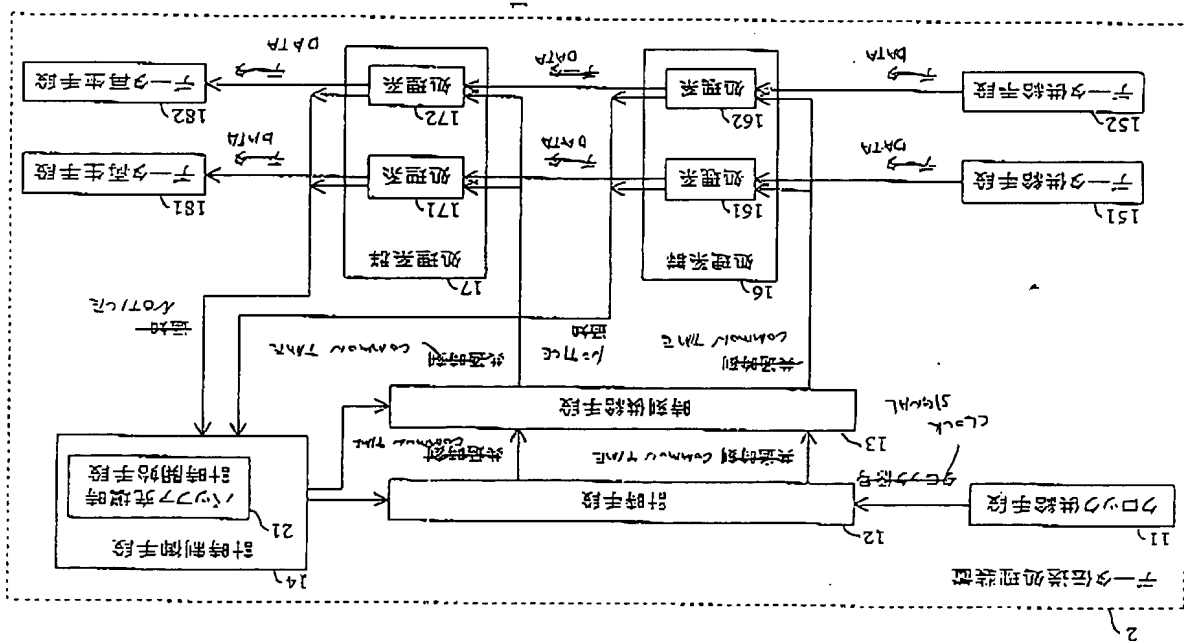


Fig. 4

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**FIG. 5**

COUNTING UNIT 12, TIME SUPPLY UNIT 13

COUNTING CONTROL UNIT 14

## PROCESSING SYSTEM GROUPS 16 AND 17

(S21) START

(S22) WAIT FOR A NOTICE GIVEN FROM A PROCESSING SYSTEM

(S23) A PROCESSING SYSTEM COMPLETING A PREPARATION FOR A TRANSMISSION PROCESSING TRANSMITS A TRANSMISSION PROCESSING PREPARATION COMPLETION NOTICE

(S24) A NOTICE IS GIVEN WHEN DATA STORED IN THE DATA HOLDING REGION OF THE PROCESSING SYSTEM REACH A PREDETERMINED CONSTANT AMOUNT

(S25) RECEIVE THE NOTICE FROM THE PROCESSING SYSTEM

(S26) RECEIVE THE TRANSMISSION PROCESSING PREPARATION COMPLETION NOTICE FROM ALL OF PROCESSING SYSTEMS BELONGING TO ONE PROCESSING SYSTEM GROUP

**(S25) RECEIVE THE NOTICE FROM THE PROCESSING SYSTEM**

**(\$26) RECEIVE THE TRANSMISSION PROCESSING PREPARATION COMPLETION NOTICE FROM ALL OF PROCESSING SYSTEMS BELONGING TO ONE PROCESSING SYSTEM GROUP**

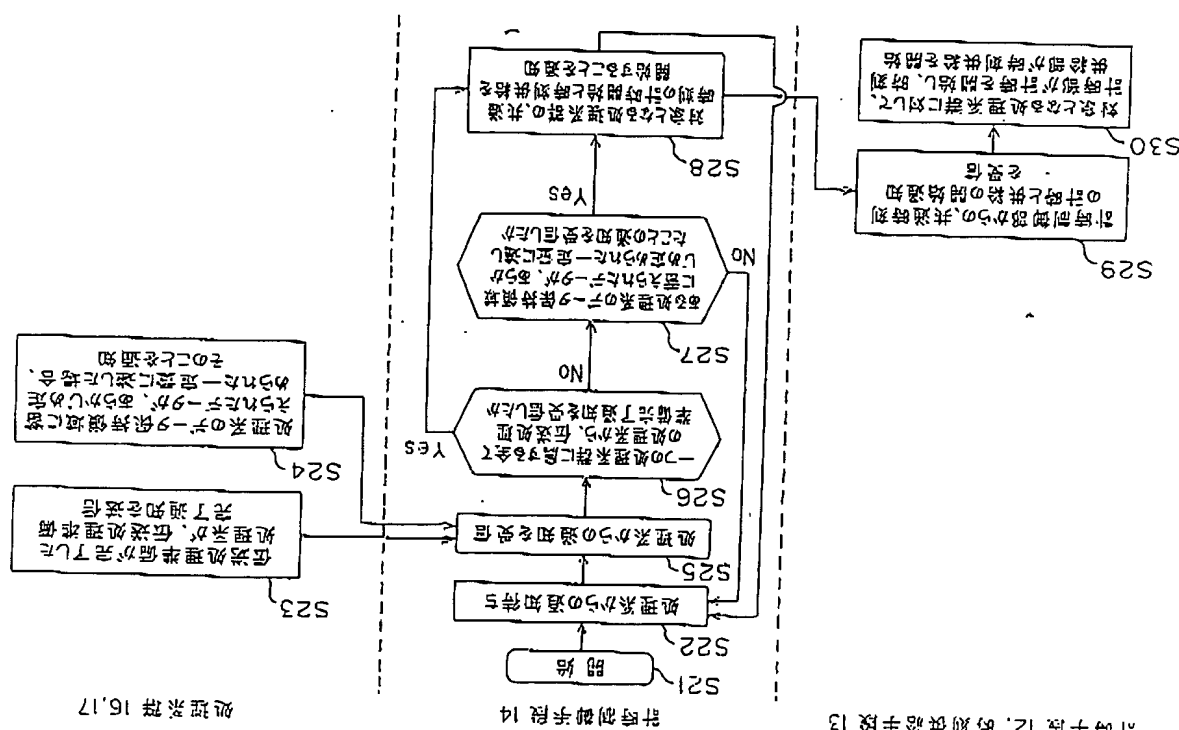
(S27) RECEIVE A NOTICE THAT DATA STORED IN THE DATA HOLDING REGION OF A CERTAIN PROCESSING SYSTEM REACH A PREDETERMINED CONSTANT AMOUNT

(S28) GIVE THE NOTICE OF A START TO COUNT A COMMON TIME AND A START TO SUPPLY THE TIME FOR A PROCESSING SYSTEM GROUP TO BE AN OBJECT

(S29) RECEIVE THE NOTICE OF A START TO COUNT AND SUPPLY A COMMON TIME FROM A COUNTING CONTROL PORTION

(s29) RECEIVE THE NOTICE OF A START TO COUNT AND SUPPLY A COMMON  
TIME FROM A COUNTING CONTROL PORTION

(S30) A COUNTING PORTION STARTS COUNTING AND A TIME SUPPLY PORTION STARTS TO SUPPLY A TIME FOR A PROCESSING SYSTEM GROUP TO BE AN OBJECT



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- FIG. 6
- (3) DATA TRANSMISSION PROCESSING APPARATUS
- (11) CLOCK SUPPLY UNIT
- (12) COUNTING UNIT
- (13) TIME SUPPLY UNIT
- (14) COUNTING CONTROL UNIT
- (16) PROCESSING SYSTEM GROUP
- (17) PROCESSING SYSTEM GROUP
- (31) TIME-OUT COUNTING START UNIT
- (151) DATA SUPPLY UNIT
- (152) DATA SUPPLY UNIT
- (161) PROCESSING SYSTEM
- (162) PROCESSING SYSTEM
- (171) PROCESSING SYSTEM
- (172) PROCESSING SYSTEM
- (181) DATA REPRODUCING UNIT
- (182) DATA REPRODUCING UNIT

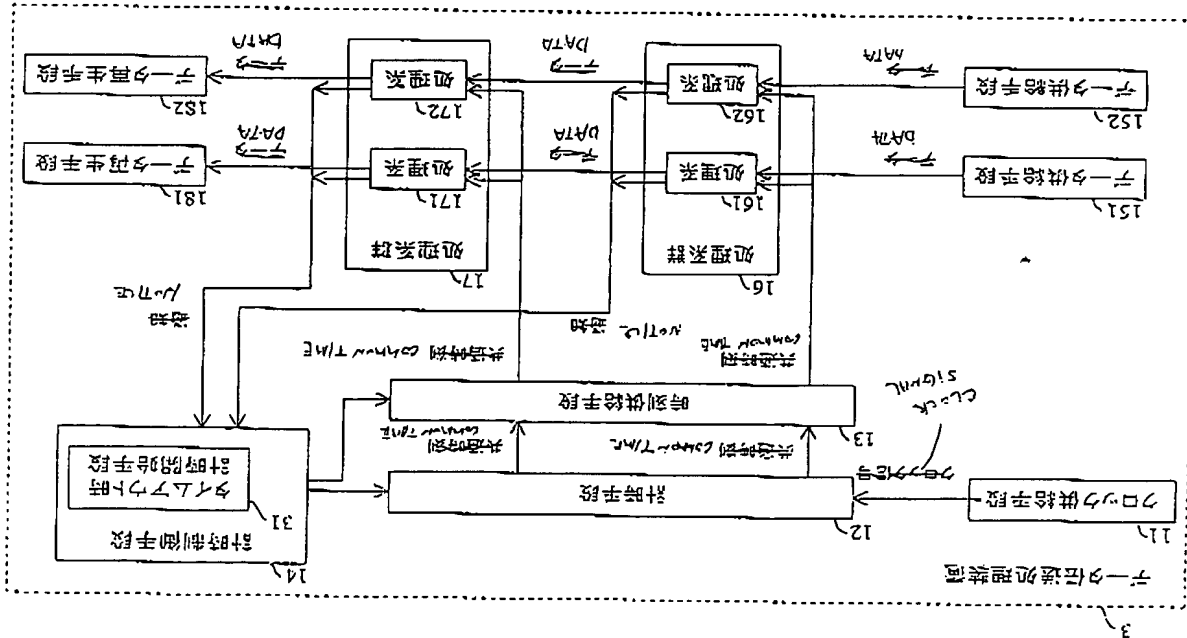


Fig. 6

FIG. 7

- COUNTING UNIT 12, TIME SUPPLY UNIT 13
- COUNTING CONTROL UNIT 14
- PROCESSING SYSTEM GROUPS 16 AND 17
- (S31) START
- (S32) WAIT FOR A NOTICE GIVEN FROM A PROCESSING SYSTEM (A TIME-OUT DECISION PROCESSING)
- (S33) OCCUR A TIME-OUT ?
- (S34) A PROCESSING SYSTEM COMPLETING A PREPARATION FOR A TRANSMISSION PROCESSING TRANSMITS A TRANSMISSION PROCESSING PREPARATION COMPLETION NOTICE
- (S35) RECEIVE THE NOTICE FROM THE PROCESSING SYSTEM
- (S36) RECEIVE THE TRANSMISSION PROCESSING PREPARATION COMPLETION NOTICE FROM ALL OF PROCESSING SYSTEMS BELONGING TO ONE PROCESSING SYSTEM GROUP
- (S37) GIVE THE NOTICE OF A START TO COUNT A COMMON TIME AND A START TO SUPPLY THE TIME FOR A PROCESSING SYSTEM GROUP TO BE AN OBJECT
- (S38) RECEIVE THE NOTICE OF A START TO COUNT AND SUPPLY A COMMON TIME FROM A COUNTING CONTROL PORTION
- (S39) A COUNTING PORTION STARTS COUNTING AND A TIME SUPPLY PORTION STARTS TO SUPPLY A TIME FOR A PROCESSING SYSTEM GROUP TO BE AN OBJECT

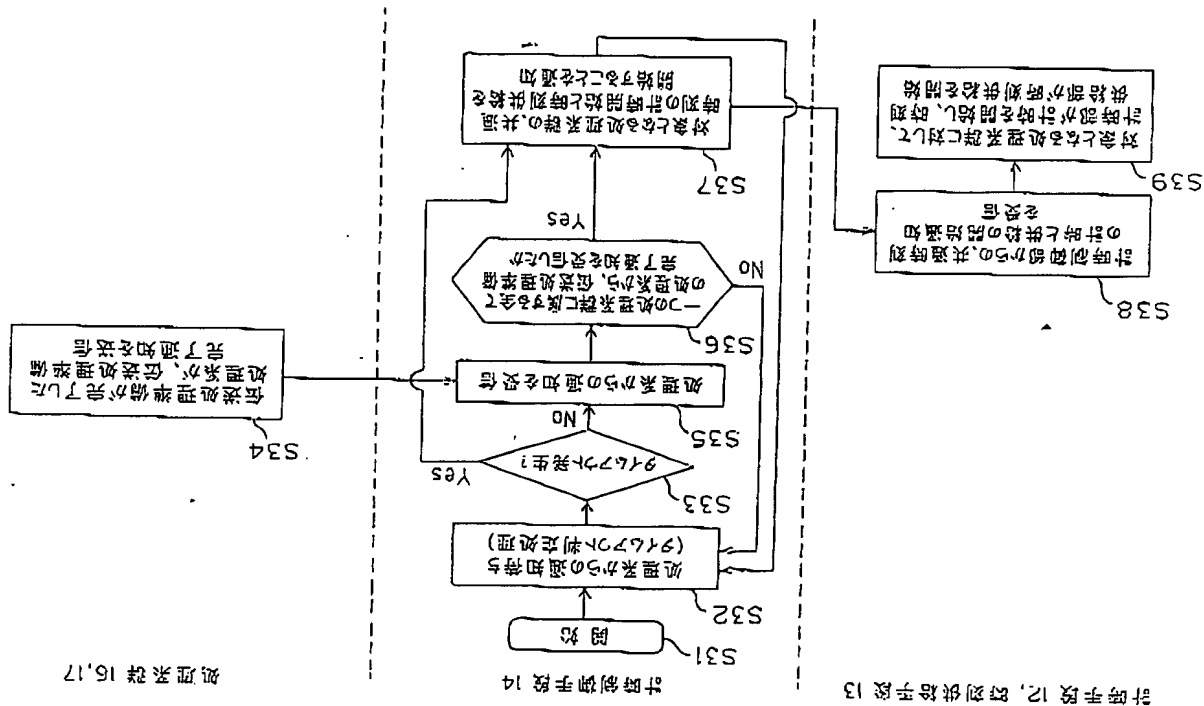


Fig. 7

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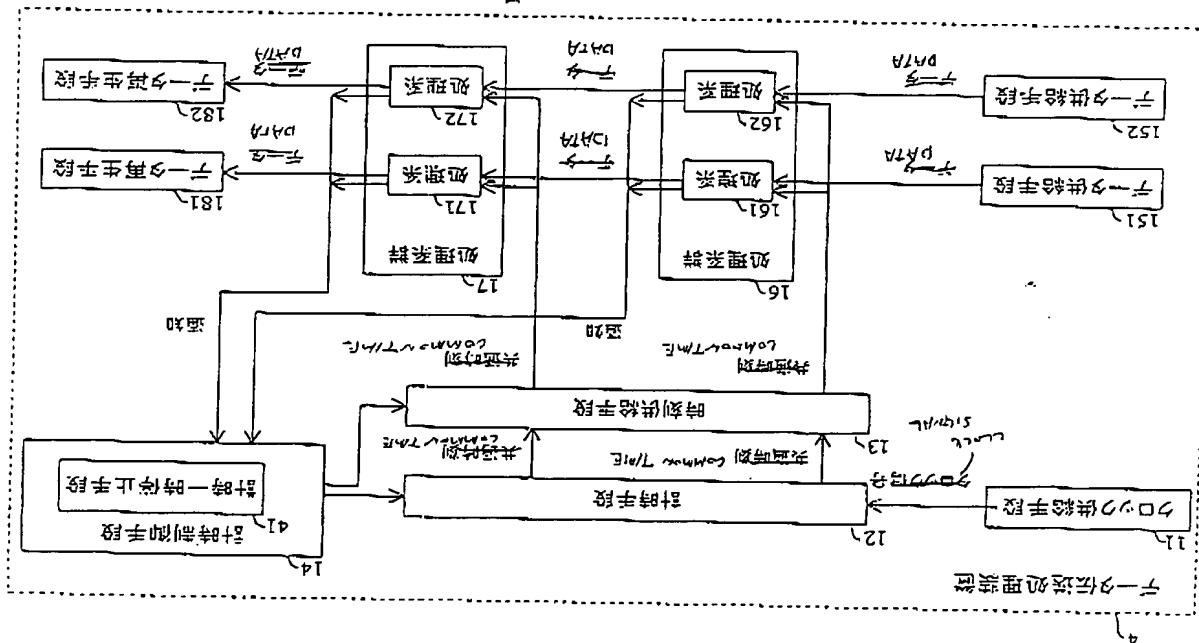
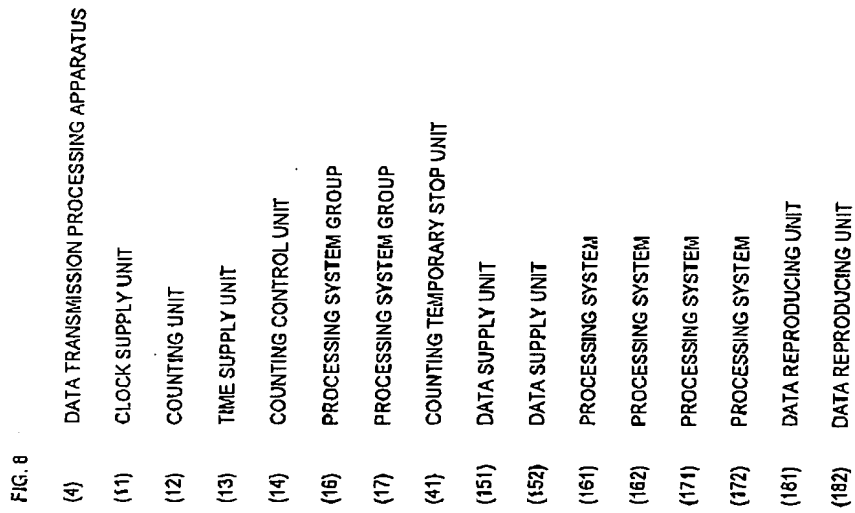


Fig. 8



